

CHAPTER 2

PREPARATION OF M2/M3

LESSON PLAN 2

METHOD:

Conference, demonstration, and practical exercise

TIME ALLOTTED:

1.5 hours

COURSE PRESENTED TO:

- a. BFV crews
- b. Instructors
- c. TSC personnel

TOOLS, EQUIPMENT, AND MATERIALS:

See Appendix A

PERSONNEL:

- a. Primary instructor
- b. Assistant instructor

INSTRUCTIONAL AIDS:

- a. Overhead projector
- b. Viewgraphs (Appendix C)

REFERENCES:

- a. TM 9-6920-710-12&P-1
- b. TM 9-2350-252-10-1/2
- c. TM 9-2350-284-10-1/2
- d. FM 23-1

APPENDICES:

Appendix A. Tools, Equipment, and Materials
Appendix B. Safety
Appendix C. Viewgraphs

2-1. INTRODUCTION.

(5 minutes)

Note. Show Slide 1.

- a. **Reason.** PGS provides BFV crews with a means to conduct precision gunnery training using their assigned vehicle. To use PGS to its full potential, you must properly prepare the vehicle for PGS training.

Note. Show Slide 2.

- b. **Training Objective.** Given an operational M2/M3 series BFV with BII and a Bradley boresight kit, you will perform the following tasks to prepare the vehicle for PGS training:
 - (1) Conduct prepare-to-fire checks and services IAW FM 23-1.
 - (2) Boresight vehicle IAW TM 9-2350-252-10 or TM 9-2350-284-10.
 - (3) Prepare vehicle-specific equipment IAW TM 9-6920-710-12&P-1, Chapter 2.
- c. **Procedure.** During this block of instruction we will cover how to prepare the vehicle for PGS training. You will have an assistant (small group) instructor for the practical exercise portion of this class. You will follow the instruction as found in the appropriate FMs and TMs to prepare the host vehicle for PGS training.

2-2. CONFERENCE/DEMONSTRATION/PRACTICAL EXERCISE.

(70 minutes)

- Notes.
1. The primary instructor will release the student crews to their assigned assistant (small group) instructors for the practical exercise portion of this lesson.
 2. Prior to students' arrival, ensure that an assistant instructor is assigned to each training station.
 3. Direct students to their appropriate training station.
 4. Each assistant instructor is to conduct a safety briefing for his small group IAW Appendix B.
 5. Whenever possible, have the students serve as demonstrators during small group instruction. Have one student read the procedures while another student performs the task. To ensure all students get equal hands-on time, rotate the reading and performance responsibilities.
 6. The assistant instructor discusses and clarifies the procedures as required and reinforces the training objective.

Warning. Accidental firing of the 25 mm gun could cause injury or death. Ensure weapon is clear prior to training.

Note. Show Slide 3.

2-2. CONFERENCE/DEMONSTRATION/PRACTICAL EXERCISE (Con't).

- a. **Conduct Prepare-to-Fire Checks and Services.** Work as a crew to perform the prepare-to-fire checks IAW FM 23-1.

Note. Inform the crews that improper boresighting of vehicle will result in poor training results.

- b. **Boresight Turret Weapons.** Boresight the turret weapons using procedures outlined in TM 9-2350-252-10 or TM 9-2350-284-10.

Note. Show Slide 4

- c. **Prepare Vehicle-Specific Equipment.**

- (1) Place vehicle master power switch and turret power switch in OFF position.
- (2) Engage turret traverse lock.
- (3) Inspect and Clean DTP TJ1 - TJ4 connectors. The connectors underneath the floor plate can, if not cleaned, cause damage to PGS equipment. Remove four screws, lockwashers, and floor plate from vehicle floor. Visually inspect TJ1 - TJ4 of the DTP for dirt, oxidation, and damage. Notify the proper maintenance personnel to correct any problems found.
- (4) Remove commander's rear periscope to properly route cables in and out of the turret. Remove and store the commander's rear periscope as follows:
 - (a) Cut through sealant around base of commander's rear periscope at top of turret.
 - (b) From inside turret, loosen two screws, release brackets, and remove blackout cover bracket from turret.
 - (c) Pull downward to remove periscope from turret.
- (5) Adjust load plan to allow for external mounting of target system components, if needed.

2-3. FINAL REVIEW. (5 minutes)

- a. **Student Questions.**

Note. Show Slide 5.

- b. **Summary of Main Teaching Points.**

- (1) Prepare-to-fire checks
- (2) Boresight turret weapons
- (3) Prepare vehicle-specific equipment

2-3. FINAL REVIEW (Con't).

Note. Show Slide 6.

- c. **Closing Statement.** In order to get the desired training result from the PGS equipment, you must first be able to properly prepare the vehicle for PGS training.

APPENDIX A TO LESSON PLAN 2

PREPARATION OF M2/M3

TOOLS, EQUIPMENT, AND MATERIALS

Listed equipment is one per vehicle crew, except as noted.

1. M2/M3 series BFV with BII
2. Bradley boresight kit
3. Boresight panel
4. MILES TOW Missile Simulation Round (MSR), if used
5. TM 9-2350-252-10 or TM 9-2350-284-10
6. TM 9-6920-710-12&P-1
7. FM 23-1
8. Training area with a minimum of 1200 m of maneuver space

APPENDIX B TO LESSON PLAN 2

PREPARATION OF M2/M3

SAFETY

Listed general safety regulations are to be strictly enforced during the performance of this lesson.

1. Mount and dismount vehicle at left front or through the back ramp.
2. Maintain 3 points of contact while on top of vehicle.
3. No smoking within 50 m of vehicle.
4. Do not go over or under gun barrel.
5. Ensure turret traverse lock is engaged before entering turret or working in or around turret.
6. Ensure vehicle master power switch and turret power switch are in OFF position when working in or around turret.
7. Ensure proper hearing protection is worn if using pyrotechnics.
8. If ATWESS is used, ensure area is clear 50 m to the rear and 25 m to the sides.

**APPENDIX C
TO LESSON PLAN 2**

PREPARATION OF M2/M3

VIEWGRAPHS
